Uniformed Services University of the Health Sciences
Molecular and Cell Biology Graduate Program
4301 Jones Bridge Road, Bethesda, MD 20814

COURSE SCHEDULE FOR GENETICS (MCB 503)

COURSE DIRECTOR	TONY MAURELLI, PH.D. Department of Microbiology and Immunology (B4-092) Telephone: 301-295-3415; E-MAIL: amaurelli@usuhs.mil
CREDIT	Four quarter hours. To be offered through the Molecular and Cell Biology Program from mid-Winter through the Spring term quarters of 2001. Meets for 1.5 hours twice per week, Tuesdays and Fridays 1:00-2:30pm, for 16 weeks (20 meetings and 45 contact hours). All classes will be held in room A2052
OBJECTIVE	The students are expected to develop a rudimentary knowledge of classical genetics and an extensive understanding of molecular genetics. Course material includes experimental approaches to genomic analysis and the mechanisms of transmission, expression, and manipulation of genetic information. This course is a graduate level course that will emphasize the experimental approaches used to address genetic questions in prokaryotic and eukaryotic systems.
TEXTS	The required text is: *Molecular Genetics of Bacteria* -- Larry Snyder & Wendy Champness American Society for Microbiology Press, Washington, DC. ISBN: 1-55581-102-7 Price: $79.95 (*http://www.asmpress.org/books/product.asp?sku=20013*)
	Students are encouraged to purchase any general genetics textbook as a reference and for background material. In addition, instructors will make reading assignments from the primary literature.
	One recommended genetics textbook is: *Genes VII* -- Benjamin Lewin (2000) Oxford Univ Press; ISBN: 0-19-879276-X Price: $79.95 (available at *www.amazon.com*) An on-line version is also available at: *http://www.ergito.com/docs/start.htm*
	The following books will be available **on reserve in the MCB library (C2095)**. *An Introduction to Genetic Analysis* 6th Edition, Griffiths, et al, (1996) *Recombinant DNA* -- J.D. Watson, et al. (1992) *Genes & Genomes* -- M. Singer and P. Berg (1991). *Basic Genetics* -- D.L. Hartl (1991).
GRADING	Student performance will be evaluated based on two section examinations. Each section examination will comprise 50% of the final grade.